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AMENDED AND NEW CLAIMS FOR SERIAL NO. 09/847,622

1. (Amended) A transistor, comprising:

a substrate;

an active region defined in said substrate;

- a gate insulation layer formed above said active region; and
- a gate electrode formed above said gate insulation layer, said gate electrode having a middle portion located over the active region, said middle portion having a gate length and a gate height, wherein a cross-sectional area of said gate electrode in a plane defined by said gate length and said gate height of the middle portion exceeds a value obtained by multiplying the gate length by the gate height.

27. (New) A transistor, comprising:

- a substrate:
- a gate insulation layer formed above said substrate; and
- a gate electrode formed above said gate insulation layer, said gate electrode having an upper portion and a lower portion, said upper portion having a plurality of extensions formed thereon, said extensions of said upper portion extending laterally beyond said lower portion of said gate electrode.
- 28. (New) The transistor of claim 27, further comprising an insulating material positioned adjacent said lower portion of said gate electrode and under said extensions formed on said upper portion.

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- (New) The transistor of claim 27, wherein said substrate is comprised of silicon. 29.
- (New) The transistor of claim 27, wherein said gate insulation layer is comprised 30. of silicon dioxide.
- (New) The transistor of claim 27, wherein said lower portion of said gate 31. electrode is comprised of polysilicon.
- The transistor of claim 27, wherein said upper portion of said gate 32. electrode is comprised of polysilicon.
- 33. (New) The transistor of claim 27, wherein said extensions are comprised of polysilicon.
- (New) The transistor of claim 27, wherein said upper portion of said gate 34. electrode and said extensions have a combined lateral dimension that is approximately 5-100 percent greater than a lateral dimension of said lower portion of said gate electrode.